ZoneVu

ZVK-007 Keyboard

USERS MANUAL

SECURITY *with* VISION

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CCTV MANUFACTURERS & DISTRIBUTORS ASSOCIATION

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1. INSTALLATION

1.1 EQUIPMENT

The ZVK-007 should be carefully unpacked and the contents checked against the list below.

ZVK-007 KEYBOARD (19 Inch By 4U Panel Mounted)
MAINS CUBE PSU.
ZoneVu NETWORK NODE BOX

1.2 CONNECTING THE ZVK-007 TO THE ZONEVU NETWORK

STEP 1 Wire the Mains Cube PSU to the Network Node box observing the polarity. Set the PSU to give +12V output.

STEP 2 Wire the Network Node box to the ZoneVu Network observing the polarity of the connections and ensuring that the screen of the Network cable is connected to the PSU 0V connection.

STEP 3 Plug the Mains Cube into a convenient power socket.

STEP 4 Plug the ZVK-007 into the FCC connector on the Network Node box.

1.3 KEYBOARD ADDRESS

Each keyboard connected to the ZoneVu network requires a unique **Module Access Code** (MAC) to function correctly. Set the MAC by following the procedure in Section 6.5.3.

NOTE ! The MIC (Module Identification Code) is not used by the ZVK-007 and can be ignored.

1.4 SERIAL COMMUNICATIONS

The ZVK-007 can operates on a RS422 Topology with the following parameters -

BAUD RATE	-	9600 / 19200 / 38400	**STOP BITS**	-	1
DATA BITS	-	8	**FRAME**	-	10 BIT
PARITY	-	NONE	**FLOW**	-	NONE

2. GETTING STARTED

2.1 POWER-UP MESSAGES

Whenever the keyboard is powered-up the following messages are displayed by the LCD. Examples shown.

KEYBOARD MODEL AND COPYRIGHT

SOFTWARE VERSION	-	4.21.0.0
RELEASE DATE	-	13-05-04
MODULE ACCESS CODE	-	MAC 01
BAUD RATE	-	9600 baud
PRIORITY	-	1
MODE	-	Matrix Mode

2.2 LOGGING ON

The **ZVK-007** has four levels of access, three User levels and one Supervisor level and is fully **LOG ON** / **LOG OFF** Password Protected.

USER LEVELS can be programmed to allow access to different modes e.g. - **CLASIK** and **PCI**.

Keyboard Configuration Management is carried out from the **SUPERVISOR LEVEL**. User Level Access, Password allocation and Keyboard Set-up has to be carried out from this Level. Video Matrix Configuration and Camera Receiver Configuration can also be carried out from this Level.

To protect the keyboard from unauthorized use the operator can **LOG** the keyboard off the System.

When the keyboard is in this state the display will show -

LOGGED OFF PLEASE ENTER PASSWORD

INFO	*The password can be alphanumeric and up to **TEN** Characters.*
STEP 1	Type in the **PASSWORD** for the User Level you require access to.
INFO	*Use the **SHIFT** key to shift between the Alpha and Numeric Keys. A capital 'A' will appear on the display whenever the numeric keypad is shifted to select alpha keys.*
STEP 2	Press the **ENT** Key
INFO	*The Display will then either show* ACCESS DENIED *if the Password was incorrect* or USER LEVEL if *Access to the User Level when the Password is correct.*

2.3 MODE SELECTION

Once Logged On the display will show SELECT MODE
LOG OFF

STEP 1 Press the **MODE** key to cycle through the Modes available for this USER LEVEL.

INFO *In sequence the display will show for example* LOG OFF
CLASIK MODE
VCR MODE

STEP 2 Press **ENT** to select the Mode required.

3. CLASIK MODE

3.1 CLASIK MODE FACILITIES

MONITOR SELECTION	- 1 - 64
CAMERA SELECTION	- 0 - 512
GLOBAL	- HOME - AUX1 - WIPE - IRIS AUTO - LAMP
PRESETS	- HOME - 1 - 16
PATROL	- ORDERED - RANDOM
CAMERA CONTROL	- PAN & TILT - ZOOM, FOCUS, IRIS
	- IRIS AUTO / MANUAL - AUX1, AUX2, LAMP
	- PWI, WASH, WIPE
SALVO SEQUENCING	- 1- 64 MONITORS 16 SEQUENCE PATTERNS STEP-BACK -STEP-FORWARD PAUSE

When the Keyboard is in **CLASIK MODE** the display will show CLASIK MONITOR - n
MODE CAMERA - n

3.2 SELECTING A CAMERA

STEP 1 Using the **Numeric Keypad** enter the digits of the Camera Number to be selected.

INFO *Each Digit entered will be displayed adjacent to **CAMERA**.*

STEP2 Press the **ENT** Key.

INFO *The display will then either retain the camera entered indicating a valid entry or show* CAMERA-ERROR or CAMERA-DENIED

To select another Camera repeat process from Step 1.

3.3 SELECTING A MONITOR

STEP 1 Press the **MON** key so the display shows MONITOR

STEP 2 Enter a monitor number using the Alpha Numeric Keypad.

INFO *Each digit entered will be displayed adjacent to MONITOR.*

STEP 3 Press the **ENT** Key

INFO *The display will then either retain the Monitor entered indicating a valid entry or show*

MONITOR-ERROR

or

MONITOR-DENIED

3.4 CAMERA CONTROL

The Camera shown on the display will always be the Camera under Control. If you require to control a different Camera refer to section 3-2 Selecting a Camera.

Control of the Camera shown on the display is automatically achieved (assuming no other keyboard with a higher or equal priority is already controlling the camera) when either the Pan & Tilt **JOYSTICK** or Zoom & Focus **JOYSTICK** are moved or when either of the following keys are pressed -**WASH - AUX2 - PWI - PTZ.**

To indicate control has been achieved the display will show PTZ

Otherwise the display will show CONTROL DENIED indicating the camera is currently under the control of another keyboard.

3.5 RELEASING CAMERA CONTROL

The **PTZ** key when pressed will release control of the Camera, (so other keyboards can access it) without having to select another Camera.

The second function of the **PTZ** key is to take control of a Camera without having to use the **JOYSTICKS** etc.

Control of the Camera is also automatically released when either a new monitor or camera selection mode, GLOBAL, PRESET or PATROL are selected.

3.6 SALVO SEQUENCE

Any Video Matrix monitor can be placed into **SALVO** Sequence Mode to display a sequence pattern of cameras. Camera pictures are Salvo switched to maintain framing between patterns. When one or more monitors have been assigned to run sequence patterns the **STEP FORWARD - STEP BACK** and **PAUSE** keys can be used to control the **SALVO** switching.

STEP-BACK	Each time the **STEP BACK** key is pressed all patterns are stepped back one frame to display the previous camera picture.
STEP-FORWARD	Each time the **STEP FORWARD** key is pressed all patterns are stepped forward one frame to display the next camera picture in the pattern.
PAUSE	Whilst the **PAUSE** key is held down all patterns will be displaying the current camera pictures i.e. the salvo dwell time is temporarily suspended.

3.7 PLACING A MONITOR INTO SEQUENCE MODE

STEP 1	Press the **SALVO** key so the display shows CAMERA-P
STEP 2	Enter a **PATTERN** number using the Numeric Keypad in the range 1 - 16
INFO	*Each digit entered will be displayed adjacent to CAMERA -P3*
STEP 3	Press the **ENT** Key
INFO	*The display will then either retain the Pattern entered, indicating a valid entry, or show* CAMERA-Error *and revert back to the current camera selected.*

3.8 GLOBAL FACILITY

The **GLOBAL** facility allows a number of camera functions to be activated on all cameras in the system with a single keystroke. The global facility can be used with the following camera control facilities.

WIPE - All camera wipers will be switched on or off

LAMP - All camera lamps will be switched on or off

AUX1 - All camera auxiliary 1 outputs will be switched on or off

IRIS - All cameras will revert to Auto-Iris

HOME - All cameras will return to their Home position

STEP 1 Press the **GLOBAL** key so the display shows GLOBAL

STEP 2 Press one of the above listed function keys

INFO *Cameras currently under control from another keyboard will not have the function activated.*

3.9 PRESET FACILITY

The **PRESET** facility allows camera presets to be recalled in the range 1 - 16. **HOME** is a special preset facility which has its own dedicated key.

STEP 1 Press the **PRESET** key so the display shows PRESET

STEP 2 Enter a PRESET number using the Numeric Keypad in the range 1 - 16

INFO *Each digit entered will be displayed adjacent to PRESET -1*

STEP 3 Press the **ENT** Key

3.10 PATROL FACILITY

The **PATROL** facility allows a camera patrol to be recalled in the range 1 - 2. The camera will automatically patrol a number of presets on either a Random or Ordered basis.

PATROL 1 - **RANDOM** Patrol recalls presets randomly and dwells at each preset position for random period of time up to 15 minutes.

PATROL 2 - **ORDERED** Patrol recalls presets in a ordered manner dwelling at each preset for a pre-defined period of time.

STEP 1 Press the **PATROL** key so the display shows PATROL

STEP 2 Using the Numeric Keypad Press **1** to select a Random patrol **2** to select an Ordered patrol.

INFO *A camera will continue to Patrol until it receives any valid control command.*

3.11 LATCHED CAMERA FUNCTIONS

Camera control keys are provided for the following camera latched functions

WIPE LAMP AUX1 IRIS AUTO-MANUAL

STEP 1 Press the function key you require or select camera control by first pressing the **PTZ** key and then select the latched function you require.

Whenever camera control is selected the display will show any camera latched functions switched on.

WIPER LAMP A1 MAN

INFO *Camera Latched functions can be selected without having first to attain control of the camera.*

3.11.1 FUNCTION TIMEOUT OVERIDE

The lamp and manual iris controls have a timeout function, controlled by the video matrix, which can be overridden by the 007 keyboard. The function keys **F1** and **F2** are used for this purpose.

After activating the lamp or switching to manual Iris from the keyboard, the timer if enabled is started. To cancel the Lamp timer, press **F1** after the Lamp key.

To cancel the Iris timer, press **F2** after the Iris manual key.

3.12 ZONAL SWITCHING

The Zonal Switching facility is a powerful feature capable of switching eight cameras to eight monitors with a single keystroke. Eight **ZONES** can be configured per system keyboard (see section 5-10) providing an overall Zonal Switching capability for each keyboard of sixty-four cameras to sixty-four monitors.

Practical applications for Zonal Switching are endless but here are a few that we know have been successfully implemented by our customers.

Using Zonal Switching to switch between floors of Car Parks and Department Stores.

Using Zonal Switching to route cameras to Quad Screen splitters and Multiplexers.

Using Zonal Switching to route S-VHS Y/C signals to VCR's.

A typical application would involve a monitor wall and an operator control monitor. The operator would select and operate cameras displayed on the control monitor. Zonal Switching would take place on the monitor wall with the operator being able to view up to sixty-four cameras with just eight keystrokes.

If a particular picture on the monitor wall demanded closer inspection it would be transferred to the operators monitor for instant control access by simply entering the camera number.

3.12.1 SELECTING ZONES

Zones are selected via the dedicated Zone Keys Z1M - Z8M. e.g. pressing Z4M would select Zone 4.

Confirmation of which Zone has been selected will be displayed on the LCD for approximately two seconds.

E.g. ZONE4

4. SITE MODE

4.1 SITE MODE FACILITIES

SITE SELECTION	- 0 - 255
MONITOR SELECTION	- 1 - 64
CAMERA SELECTION	- 0 - 512
GLOBAL	- HOME - AUX1 - WIPE - IRIS AUTO - LAMP
PRESETS	- HOME - 1 - 16
PATROL	- ORDERED - RANDOM
CAMERA CONTROL	- PAN & TILT - ZOOM, FOCUS, IRIS
	- IRIS AUTO / MANUAL - AUX1, AUX2, LAMP
	- PWI, WASH, WIPE

When the Keyboard is in **SITE MODE** the display will show

SITE	MONITOR-n
nC	CAMERA -n

All Facilities operate as in clasik mode with the exception of those covered in the following sections.

4.2 SELECTING A SITE

STEP 1	Press the **Site Key** labeled as **DEC / Record**. The current site number will be cleared.
STEP 2	Using the **Numeric Keypad** enter the digits of the Site Number to be selected.
INFO	*Each Digit entered will be displayed below the word* **SITE**.
STEP3	Press the **ENT** Key.

INFO *A Trunk will then be automatically selected and displayed on the current monitor. The display next to the site number will update to show the status of the selected trunk as follows:*

C – *Control, operator has control of the trunk*

D – *Denied, operator has no control of the trunk but can view what is on it, or the site-monitor combination is invalid*

To select another Site repeat process from Step 1.

NOTE: To select the local Site, select site 0.

4.3 SELECTING A TRUNK

When selection of a site is made as described above, the first unused trunk is automatically selected and displayed.

If all trunks are in use, the first available trunk is selected and the status shows *Denied.*

A different trunk can then be manually selected, or control taken of a used trunk, with the following procedure.

STEP 1 Press the **Trunk Key** labeled as **ENC / Play**.

INFO *If the current trunk was denied a + is displayed next to the status to indicate that that the operator has manually accepted the trunk selection, and therefore may take control of it.*

Otherwise, the next trunk is selected and displayed on the current monitor. The status of the trunk will update to reflect it's usage.

To select another Trunk repeat Step 1. The selection will cycle through the available trunks.

4.4 SELECTING A CAMERA

STEP 1 Using the **Numeric Keypad** enter the digits of the Camera Number to be selected.

INFO *Each Digit entered will be displayed adjacent to **CAMERA**.*

STEP2 Press the **ENT** Key.

INFO *The display will then either retain the camera entered indicating a valid entry or show* CAMERA- ERROR or CAMERA- DENIED

If the current trunk is denied and has not been manually selected (indicated by a + next to the status) the switch will be denied.

To select another Camera repeat process from Step 1.

4.5 SELECTING A MONITOR

As in classic mode. The site number and trunk status is updated as well as the camera number.

5. PCI MODE

5.1 PCI MODE FACILITIES

CAMERA CONTROL - PAN & TILT
- ZOOM FOCUS IRIS
- IRIS AUTO/MANUAL - AUX1 - AUX2 - LAMP - PWI - WASH - WIPE

PCI MODE (PC Interactive Mode) allows the Keyboard to function interactively with a PC.

Camera selections are made via the **PC GUI** with the last camera selected being automatically assigned to the keyboard for Camera Control.

6. SUPERVISOR LEVEL

6.1 SUPERVISOR LEVEL FEATURES

The **SUPERVISOR LEVEL** is a system management level provided to configure keyboard and system parameters.

The system cannot be operated in the normal manner associated with the three **USER LEVELS**.

Once logged onto the **SUPERVISOR LEVEL** the display will show

SUPERVISOR	CONFIGURATION
LEVEL	ESC TO LOG OFF

To view the configuration options available press the **MODE** key - with each press the display will show -

ESC TO LOG OFF	ZVR CONFIG
PASSWORDS	ZVM CONFIG
MODE ACCESS	CAMERA CONFIG
KEYBOARD SET-UP	FEATURE ACCESS

6.2 SELECTING AN OPTION

STEP 1 Press the **MODE** key until the option is displayed

STEP 2 Press the **ENT** key

6.3 PASSWORDS

The display will show SUPERVISOR LEVEL / PASSWORDS ESC TO EXIT

Use the **MODE** key to cycle through each users password - with each key press the display will show

SUPERVISOR LEVEL	PASSWORDS USER 1	USER LEVEL 1
SUPERVISOR LEVEL	PASSWORDS USER 2	USER LEVEL 2
SUPERVISOR LEVEL	PASSWORDS USER 3	USER LEVEL 3
SUPERVISOR LEVEL	PASSWORDS SUPER USER	Supervisor Level

6.3.1 CHANGING A PASSWORD

STEP 1 Press the **MODE** key until the password you wish to change is displayed

STEP 2 Press the **PROG** key. The display will erase the current password

STEP 3 Enter the new password (10 - characters maximum) using the alphanumeric keys

INFO *To enter a numeric remember to press the **SHIFT** key first*

STEP 4 Press the **ENT** key to save the new password

INFO *Use the **DEL** key to backspace incorrect entries*

STEP 5 Press the **ESC** to exit PASSWORDS

6.4 MODE ACCESS

MODE ACCESS configuration limits the modes available to each **USER LEVEL** thereby allowing each user to have a different class of service. The display will show -

SUPERVISOR	MODE ACCESS
LEVEL	ESC TO EXIT

The first thing we have to do is select the **USER LEVEL** whose **MODE ACCESS** we wish to configure

STEP 1 To select the desired **USER LEVEL** press the **MODE** key to cycle through the three **USER LEVELS**

STEP 2 When the required **USER LEVEL** is displayed press the **ENT** key the display will show

SUPERVISOR	MODE ACCESS	USER LEVEL 1
LEVEL	ESC TO EXIT	

STEP 3 Press the **MODE** key to cycle through each **MODE** category. The display will show each category and current access status for the **USER LEVEL** selected

SUPERVISOR	MODE ACCESS	USER LEVEL 1
LEVEL	CLASIK	GRANT ACCESS

INFO *The display may also show that the **MODE** will be available as a future software release by showing*

SUPERVISOR	MODE ACCESS	USER LEVEL 1
LEVEL	ZONEVU	FUTURE FEATURE

STEP 4 To change the access status for a particular category press the **PROG** key the display will show

SUPERVISOR	MODE ACCESS	USER LEVEL 1
LEVEL	CLASIK	DENY ACCESS

INFO *Each press of the **PROG** key will toggle the status between **DENY** and **GRANT***

STEP 5 Press the **ESC** key to exit **MODE ACCESS**

6.5 KEYBOARD SET-UP

KEYBOARD SET-UP allows the keyboard to be configured for particular system requirements. Camera and Monitor access, Zonal Switching can be programmed along with Keyboard Engineering facilities.

The display will show

SUPERVISOR	KEYBOARD SET-UP
LEVEL	ESC TO EXIT

STEP 1 Press the **MODE** key until the required option is displayed. With each press the display will show -

ESC TO LOG OFF	MONITORS	ENGINEERING
CAMERAS	ZONAL SWITCHING	

STEP 2 Press the **ENT** key

6.5.1 KEYBOARD CAMERA ACCESS

From the **CAMERA** menu we can enable and disable access to **VIDEO** and **CONTROL** for any system camera.

The display will show

SUPERVISOR	KEYBOARD SET-UP	CAMERA-1
LEVEL	ESC TO EXIT	VIDEO-ON

STEP 1 Press the **MODE** key to cycle through the camera options

VIDEO-ON

CONTROL-ON

STEP 2 Use the VCR **REW** and **FF** keys to cycle through the system cameras

STEP 3 Use the **PROG** key to Enable or Disable the facility

6.5.2 KEYBOARD MONITOR ACCESS

From the **MONITOR** menu we can enable and disable access to **VIDEO** and **SALVO** and also assign **MONITOR** numbers associated with this keyboard to specific video outputs on the VIDEO MATRIX for any keyboard monitor.

The display will show

SUPERVISOR	KEYBOARD SET-UP	MONITOR-1
LEVEL	ESC TO EXIT	VIDEO-ON

STEP 1 Press the **MODE** key to cycle through the monitor options

VIDEO-ON

SALVO-ON

VCP XR-1

STEP 2 Use the VCR **REW** and **FF** keys to cycle through the keyboard monitors

STEP 3 Use the **PROG** key to Enable or Disable the facility.

6.5.3 KEYBOARD ENGINEERING FACILITIES

From the **ENGINEER** menu we set the keyboard **MAC**, re-program the keyboards **MIC** and set the keyboards camera control **PRIORITY**.

The display will show

SUPERVISOR	KEYBOARD SET-UP	MAC
LEVEL	ESC TO EXIT	01

STEP 1 Press the **MODE** key to cycle through the engineer options

MAC	KBD PRIORITY	Baud Rate	Network type
1	1	9600	ZVM

STEP 2 To edit an option press the **PROG** key and then using the numeric keypad enter the new assignment e.g.

FOR MAC Enter a number in the range 01 to 16

INFO *If the number is less than 10 the leading zero MUST be entered.*

INFO *Not all ZoneVu controllers support 16 keyboards. Therefore the **MAC** must be set accordingly.*

FOR KBD PRIORITY Enter a number in the range 1 to 9 being the highest priority.

6.5.4 ZONE SETUP

Zone Set-up allows each of the eight Zones available to be configured with monitor and camera numbers. Each Zone can be **SIZEd** independently in the range 2 - 8. Up to eight Monitor numbers in the range 1 - 64 and camera numbers in the range 0 - 512 can then be entered for each Zone. Camera 0 will produce a blank monitor.

After selecting **ZONAL SWITCHING** from the **KEYBOARD SET-UP** Menu the display will show:

SUPERVISOR	KEYBOARD SET-UP	ZONE-1
LEVEL	ESC TO EXIT	SIZE -4

STEP 1 Select the **ZONE** to Configure using **PIP** and **ACT** Keys.

STEP 2 Set the **SIZE** of the Zone in the range 2 - 8 using the numeric keypad.

INFO *This effectively sets the number of Monitors that will be used when the ZONAL SWITCH is selected.*

STEP 3 Press the **ENT** key. The display will show -

SUPERVISOR	ZONE-1	MONITOR-1	MC1
LEVEL	SIZE-4	CAMERA-1	

INFO *MC1 displayed in the top right hand corner of the LCD tells your location within the ZONE currently being configured i.e. MC1 - MC8.*

STEP 4 Use the **PIP** and **ACT** keys to set the location within the **ZONE**.

STEP 5 To enter a Monitor Press the **MON** key and use the numeric keypad to enter a number in the range 1 - 64 followed by the **ENT** key.

STEP 6 To enter a Camera use the numeric keypad to enter a number in the range 0 - 512 followed by the **ENT** key.

STEP 7 Repeat STEPS 4 - 6 to configure an entire ZONE. Repeat STEPS 1 - 3 to select another ZONE.

INFO *Monitors and Cameras entered in locations above the **ZONE SIZE** will be ignored when the **ZONE** is selected in **CLASIK MODE**.*

INFO *To **EXIT** ZONE CONFIGURATION press the **ESC** key.*

6.6 FEATURE ACCESS

FEATURE ACCESS configuration enables and disables a **USER LEVELS** to the following keyboard features

GLOBAL	**PRESETS**	**PATROL**
HOME	**ALARMS**	**ZONAL SWITCHING**

The display will show

SUPERVISOR	FEATURE ACCESS
LEVEL	ESC TO EXIT

The first thing we have to do is select the **USER LEVEL** whose **FEATURE ACCESS** we wish to configure

STEP 1 To select the desired **USER LEVEL** press the **MODE** key to cycle through the three **USER LEVELS**

STEP 2 When the required **USER LEVEL** is displayed press the **ENT** key the display will show

SUPERVISOR	FEATURE ACCESS	USER LEVEL 1
LEVEL	ESC TO EXIT	

STEP 3 Press the **MODE** key to cycle through each **MODE** category. The display will show each category and current access status for the **USER LEVEL** selected

SUPERVISOR	MODE ACCESS	USER LEVEL 1
LEVEL	GLOBAL	GRANT ACCESS

STEP 4 To change the access status for a particular category press the **PROG** key the display will show

SUPERVISOR	MODE ACCESS	USER LEVEL 1
LEVEL	GLOBAL	DENY ACCESS

INFO *Each press of the **PROG** key will toggle the status between **DENY** and **GRANT***

STEP 5 Press the **ESC** key to exit **MODE ACCESS**

6.7 ZVR CONFIGURATION

ZVR CONFIG allows camera receivers to be configured from the comfort of the keyboard by utilising the camera receiver **OSD** (On Screen Display)

The display will show

SUPERVISOR	CONFIGURATION
LEVEL	ZVR CONFIG

STEP 1 Press the **ENT** key the display will show

SUPERVISOR	510 CONFIG	MONITOR-1
LEVEL	ESC TO EXIT	CAMERA-1

STEP 2 Select the camera you want to configure using the numeric keypad and pressing the **ENT** key.

STEP 3 Press the **MODE** key. The display will change to

SUPERVISOR	510 CONFIG	MONITOR-1
LEVEL	PROG TO SELECT	CAMERA-1

STEP 4 Press the **PROG** key to select the type of receiver: ZVR-**510**, ZVR-**530**, or ZVR-**500**

STEP 5 Press the **MODE** key. The display will change to

SUPERVISOR	530 CONFIG	MONITOR-1
LEVEL	PROG TO CONFIG	CAMERA-1

STEP 6 Press the **PROG** key to access the camera receiver **OSD.** The display will show

ACCESS GRANTED and then ZVR TALK MODE

STEP 7-8 The operation of the menus varies according to the receiver type.

ZVR-510 / 500

STEP 7 Follow the **OSD** Menus to configure the camera receiver. Select fields by pressing the alphanumeric key corresponding to the capitalised letter in the field name, and pressing **Enter**, or move between fields using the Pan/Tilt joystick and then pressing **Enter**. Once a data field is selected, the **Space** key toggles its value, or alpanumeric data can be entered directly. The **Shift** key toggles between alpha and numeric modes and the **DEC** key between upper and lowercase text.

STEP 8 When you have completed configuring the camera receiver exit all menus until the Main menu is displayed. Select either Save changes or Abandon changes, and press **Enter**. Now press the **ESC** key to exit **ZVR CONFIG**.

INFO *Use the joysticks to position the camera head when requested to do so by the menu - this will be indicated by the flashing word **HOME.***

ZVR-530

STEP 7 Follow the **OSD** Menus to configure the camera receiver.

The currently selected option is shown in flashing text: Use *UP* and *DOWN* to move the selection, and press *SELECT* to choose the current selection.

Selecting a menu displays different options, selecting an option allows it to be changed. Options which require text or numeric input, will clear ready for input when selected. Otherwise the option toggles through the choices each time it is selected.

Text and numbers can be entered directly from the keypad. The **Shift** key toggles between text and numeric modes and the **DEC** key between upper and lowercase text.

To cancel input or return to the previous menu, use the *CANCEL* key. **Note:** using *CANCEL* in the main menu screen, exits configuration mode.

STEP 8 When you have completed configuring the receiver, press the **ESC** key to exit **ZVR CONFIG**.

KEYS

UP	---	**LIVE** / Joystick up
DOWN	---	***ENC*** / Joystick down / **DEL**
LEFT	---	**PIP** / Joystick left
RIGHT	---	**ACT** / Joystick right
SELECT	---	**ENT** / Zoom in
CANCEL	---	**HOLD** / Zoom out

6.8 CAMERA CONFIGURATION

CAMERA CONFIG allows the supervisor to directly configure a camera through the receiver, using the camera's **OSD**. This option works only with camera types that support direct configuration.

The display will show

SUPERVISOR	CONFIGURATION
LEVEL	CAMERA CONFIG

STEP 1 Press the **ENT** key, the display will show

SUPERVISOR	CAMERA SET-UP	MONITOR-1
LEVEL	ESC TO EXIT	CAMERA-1

STEP 2 Select the camera you want to configure using the numeric keypad and pressing the **ENT** key.

STEP 3 Press the **MODE** key until the required option is displayed. With each press the display will show -

ESC TO LOG OFF	0-9 CAM SELECT	CAMERA MENU
STORE SCENE	LOAD SCENE	FREEZE FRAME

STEP 4 Press the **ENT** key

STEP 5 The camera menu is navigated using keys 2,4,6,8, ENT for down, left, right, up and set respectively. To Store/Load a scene you will be prompted to enter a scene number then press **ENT**.

STEP 6 Press **ESC** to exit the menu.

6.9 ZVM-CONFIGURATION

ZVM CONFIG allows the supervisor to configure the video matrix features e.g. camera captions, time & date etc. from the keyboard by using the video matrix **OSD** facilities.

The display will show

SUPERVISOR CONFIGURATION

LEVEL ZVM CONFIG

STEP 1 Press the **ENT** key the display will show

SUPERVISOR ZVM CONFIG

LEVEL REQUESTING ACCESS then REQUEST GRANTED

STEP 2 Follow the **OSD** Menus to configure the video matrix. Use the **DEL** key to move between options, and **ENT** to select. Enter text for captions, using the alphanumeric keys, and **SHIFT** to switch between alpha and numeric keys, and **DEC** to select upper or lower case letters.

STEP 3 When you have completed configuring the video matrix, exit all menus until the Main menu is displayed, then select 'Return To Operation' and **ENT** to exit **ZVM CONFIG**.

7. VCR MODE

The **ZVK-007** can remotely control up to eight VCR's by serial links and a **MEYERTECH** Protocol Gateway.

VCR facilities provided are -

- PLAY
- RECORD
- STOP
- PAUSE
- FAST FORWARD
- REWIND
- FORWARD SEARCH
- REVERSE SEARCH
- FRAME ADVANCE
- FRAME REVERSE ADVANCE

7.1 SELECTING A VCR

To select the **VCR MODE** log-on to the keyboard and press the **MODE** key until VCR MODE is displayed.

Press the enter key and the display will show for example -

VCR	VCR-1	STATUS-STOP
MODE		

To select a particular VCR to control use the Numeric Keypad by selecting a VCR number in the range of 1 to 8. Note that you do not have to press the ENT key after selecting a VCR number.

Using the Facilities Keypad select the desired VCR command by pressing the key once.

EG to place VCR 5 into Record mode

STEP 1 Press 5 on the numeric keypad

STEP 2 Press the Record key

The status of each VCR is maintained by the keyboard so for instance if we now select VCR 4 and select Play following the steps above and then return to VCR 5, the Status will show Record as previously selected.

To exit the **VCR MODE** press the **ESC** key.

8. MUX MODE

The **ZVK-007** can remotely control up to sixteen Multiplexers by serial links and a **MEYERTECH** Protocol Gateway.

MUX facilities provided are -

- FULL SCREEN
- MULTI SCREEN
- PICTURE IN PICTURE
- ENCODE
- DECODE
- LIVE
- ACTIVITY
- HOLD

8.1 SELECTING A MULTIPLEXER

To select the **MUX MODE** log-on to the keyboard and press the **MODE** key until MUX MODE is displayed.

Press the enter key and the display will show for example -

```
MUX   MUX-1      OFF
MODE  CAM-       OFF
```

To select a particular MUX to control use the Numeric Keypad by selecting a MUX number in the range of 1 to 16 followed by ENTER.

The LCD will then update the LCD with the selected Multiplexers last known activity.

The CAM field is only required when FULL screen is selected. Having pressed FULL, enter a camera number followed by ENTER.

To exit the **MUX MODE** press the **ESC** key.

9. TROUBLE SHOOTING GUIDE

This Trouble Shooting Guide should be used in the first instance of encountering any problems with the ZVK-007. If problems persist, contact MEYERTECH on the Technical Help line numbers given on page 30.

Symptom	*Solution*

10. DECLARATION OF CONFORMITY

EC DECLARATION OF CONFORMITY ACCORDING TO ARTICLE 10 OF COUNCIL DIRECTIVE 89/336/EEC

Manufacture's Name: MEYERTECH LIMITED

Manufacture's Address: MEYERTECH Limited
Office Block One
Southlink Business Park
Oldham
OL4 1DE

Declares, that the product(s):

Product Name : ZVK-007 Keyboard

Model(s): All

Product Options: All

Conforms to the following Product Specifications:

EN55022 CLASS B
EN50093
EN60950 Amendments 1, 2, & 3 1992

Supplementary Information:

MEYERTECH declare under our sole responsibility that the product to which this declaration relates, is in conformity with the protection requirements of council directive 89/336/eec on the approximation of the laws of the member states relating to electromagnetic compatibility.

SIGNED -

S K Meyers

S K MEYERS
Director MEYERTECH LIMITED

ISSUED THIS DAY: 1st May 1997

European Contact: Meyertech limited (Head Office), Office Block One, Southlink Business Park, Oldham, England, OL4 1DE.

11. Product Warranty

MEYERTECH LIMITED warrants that at the time of shipment the products manufactured by Meyertech will be free from defects in material and workmanship.

Should any defects appear within twelve months from date of shipment, Meyertech Limited shall at it's sole discretion repair or replace the defective material. Such material shall not be accepted for return or repair without prior notification of Meyertech Limited.

Return shipments to Meyertech Limited shall be at the customer's expense. Meyertech Limited will return said equipment prepaid via best way.

This warranty is in lieu of and excludes any and all other expressed or implied warranties of merchantability or fitness, or otherwise. Items manufactured by any supplier other than Meyertech Limited shall bear only the warranty made by the manufacturer of that product, and Meyertech Limited assumes no responsibility for the performance or reliability of that product.

Meyertech Limited will not be liable for any special or consequential damages, or for loss, damages, or expense directly or indirectly arising from the use of the products, or any inability to use them either separately or in combination with any other equipment or material or from any other cause.

This warranty does not extend to any product manufactured by Meyertech Limited which has been subject to misuse, neglect, accident, war, civil disturbance, terrorist acts, improper installation, act of God, or in violation of the instructions supplied by Meyertech Limited.

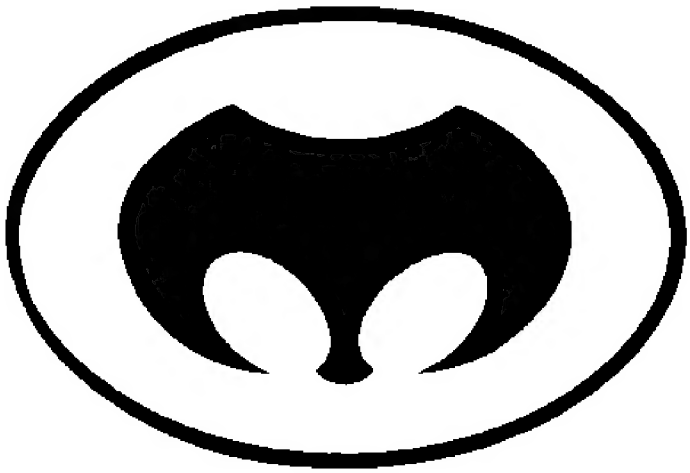
12. DOCUMENT HISTORY

ZVK-007 Keyboard Users Manual : MAN-007

ISSUE	DATE	CHANGE RECORD
06	7 October 1997	First Issue in new format
07	18 July 2001	Re-issued for Meyertech Limited
08	20 June 2002	Addition of ZVR-530 config and Site mode
09	15 July 2004	Support for multiple baud rates

NOTES

MEYERTECH LIMITED



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